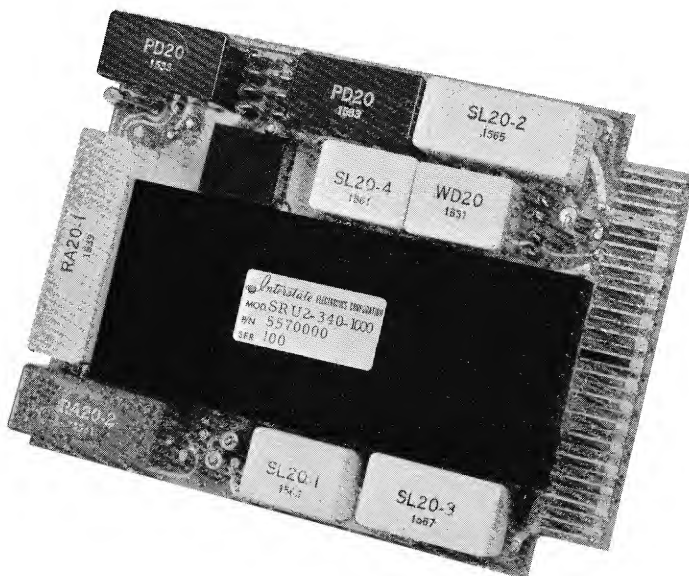


LOW COST THIN-FILM SHIFT REGISTER

348 Shift Register Bits
Per Module

Asynchronous
Operates Any Speed
From 0 to 1,000,000
Bits Per Second

Thin Magnetic Film
*Strip-Register**
Memory



Non-Volatile

Self Contained
Memory and Electronics
on 4.5" x 6" Plug-In Module

Custom Configurations
Available for Special
Applications with Higher
Speed and for Storage
Capacity

MODEL SRU2

GENERAL CHARACTERISTICS OF SRU2

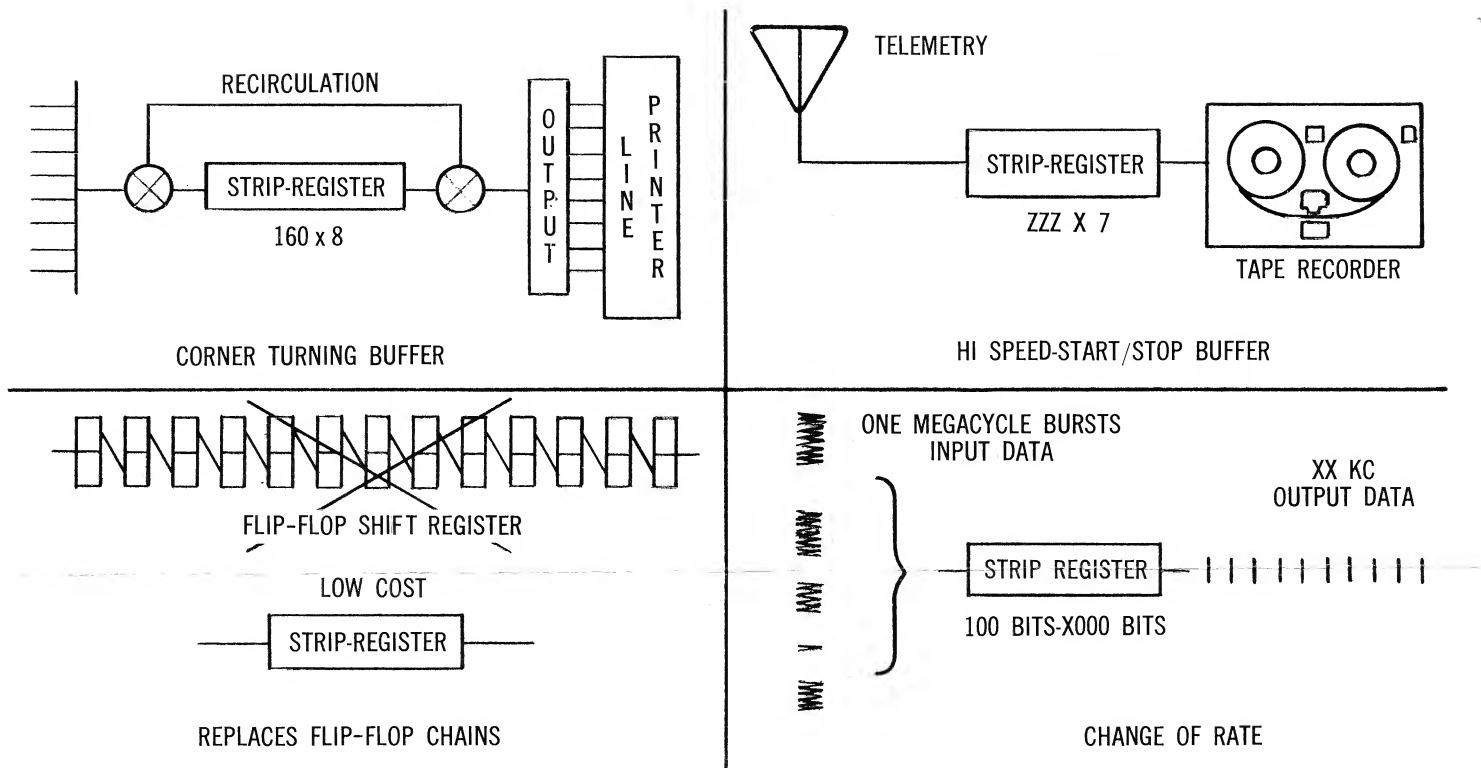
Maximum Serial Readout Rate.....	1,000,000 bits/sec
Maximum Shift Trigger (clock).....	1,000,000 cycles/sec
Input/Output Configuration.....	Serial
Input/Output Levels.....	0 and +8 volts
Storage Capacity Per Card.....	May be ordered in any length up to 348 bits (Special models available over 2000 bits)
Operating Temperature Range.....	-25° C to +75° C
Power supplies and exercise circuitry are available for use with <i>Strip-Register</i> Units	

APPLICATIONS

- Buffers Involving Changes In Information Rates, Hi Speed In - Low Out
- Re-Circulating Information Loops 100 x 1, 128 x 5, ZZZ x 7
- Replacing Flip-Flop, Core-Diode, Core-Transistor Chains
- Start, Stop - Store Applications Telemetry-Tape Buffer
- Memory For Serial Arithmetic Processors Replaces Delay Lines
- Input/Output Buffers For Mass Memory Systems
- Tape, Display, Plotters
- Custom Buffer Configurations For: Card Punches, Card Readers, Line Printers
- Tape Gapping • Tape To Tape • Man/Machine-Computer Interfaces
- 30-Day Delivery Of Systems From Standard Modules

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APPLICATIONS



The Strip-Register

The heart of the SRU2 is a vacuum deposited thin magnetic film *Strip-Register*. This register stores digital information in the form of magnetic domains within a continuous thin magnetic film strip in the manner information is stored within a magnetic drum or tape surface. In contrast to drum and tape surfaces, these techniques allow domains or bits of information to be shifted or translated through the magnetic material without involving any motion of the storage surface. This most unusual operation may be pictured as that of a static magnetic drum storage surface in which the bits of information are caused to flow along or through the surface rather than being moved along by moving the drum surface itself. The elimination of moving parts and inertial restrictions provides striking advantages for the thin-film system.

The operation should not be confused with that of fixed velocity delay lines. The *Strip-Register* is a true asynchronous shift register and its information may be shifted at any periodic or random rate ranging from zero to one megacycle, stepped incrementally or reversed.

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A SUBSIDIARY OF INTERSTATE ENGINEERING CORPORATION

THIN FILM LABORATORY

3431 LOMITA BLVD. • TORRANCE • CALIFORNIA • (213) 325-7373



ELECTRONICS CORPORATION

SUBSIDIARY OF INTERSTATE ENGINEERING CORP.
3431 LOMITA BOULEVARD • TORRANCE, CALIFORNIA

AREA CODE 213 - 325-7373
CABLE ADDRESS "FIREBALL"

THIN FILM LABORATORY

Gentlemen:

Thin film STRIP-REGISTERS can save you space, power and money in many memory and buffering applications. These versatile magnetic elements perform the same function as conventional shift registers, operating asynchronously from dc to several mc, but with fewer components and much greater reliability.

Interstate STRIP-REGISTERS can be supplied with or without electronics. Various combinations of serial and parallel operation are available. The enclosed technical data sheet suggests some typical configurations. The SRU2 can be supplied in any capacity up to 348 bits.

Digital information is stored by magnetizing discrete portions of a continuous film of magnetic material. The resulting magnetic spots are actually moved incrementally along the material toward the output as new information is clocked in at the input.

Our development and application engineers are anxious to consider your specific application. We are represented in your area by WILD & ASSOCIATES. For additional information consult the "WILD MAN" nearest you (see below) or use the enclosed reply card.

Thank you,

INTERSTATE ELECTRONICS CORPORATION

Robert L. Baddorf, Manager
Thin Film Laboratory

Enclosure



& associates inc.

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EQUIPMENT AND SYSTEMS FOR INSTRUMENTATION, CONTROL, AND DATA PROCESSING



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contact me.

☐ Send complete catalog of standard
Strip-Register Products.

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